

# UTILITY PATENT APPLICATION TRANSMITTAL

## (Small Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.  
99877

Total Pages in this Submission

44

### TO THE ASSISTANT COMMISSIONER FOR PATENTS

Box Patent Application  
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

**FILTERED SHOWERHEAD**

and invented by:

**DAVID K. FARLEY**

If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Enclosed are:

#### Application Elements

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 12 pages and including the following:
  - a. ☒ Descriptive Title of the Invention
  - b. ☐ Cross References to Related Applications (if applicable)
  - c. ☐ Statement Regarding Federally-sponsored Research/Development (if applicable)
  - d. ☐ Reference to Microfiche Appendix (if applicable)
  - e. ☒ Background of the Invention
  - f. ☒ Brief Summary of the Invention
  - g. ☒ Brief Description of the Drawings (if drawings filed)
  - h. ☒ Detailed Description
  - i. ☒ Claim(s) as Classified Below
  - j. ☒ Abstract of the Disclosure

# UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity)

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## Application Elements (Continued)

3. ☒ Drawing(s) (when necessary as prescribed by 35 USC 113)
- a. ☒ Formal      b. ☐ Informal      Number of Sheets ONE (1)
4. ☒ Oath or Declaration
- a. ☒ Newly executed (original or copy)      ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)
- c. ☒ With Power of Attorney      ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application,  
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference (usable if Box 4b is checked)  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied  
under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby  
incorporated by reference therein.
6. ☐ Computer Program in Microfiche
7. ☐ Genetic Sequence Submission (if applicable, all must be included)
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

## Accompanying Application Parts

8. ☐ Assignment Papers (cover sheet & documents)
9. ☐ 37 CFR 3.73(b) Statement (when there is an assignee)
10. ☐ English Translation Document (if applicable)
11. ☒ Information Disclosure Statement/PTO-1449      ☒ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☐ Certificate of Mailing
- ☐ First Class      ☒ Express Mail (Specify Label No.): EL448323880US

**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Small Entity)**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

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**Accompanying Application Parts (Continued)**

15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)

16. ☒ Small Entity Statement(s) - Specify Number of Statements Submitted: ONE (1)

17. ☒ Additional Enclosures (please identify below):

DRAWING TRANSMITTAL LETTER

**Fee Calculation and Transmittal**

**CLAIMS AS FILED**

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	17	- 20 =	0	x \$11.00	\$0.00
Indep. Claims	3	- 3 =	0	x \$41.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$380.00
OTHER FEE (specify purpose)					
TOTAL FILING FEE					\$380.00

☒ A check in the amount of \$380.00 to cover the filing fee is enclosed.

☐ The Commissioner is hereby authorized to charge and credit Deposit Account No. \_\_\_\_\_ as described below. A duplicate copy of this sheet is enclosed.

☐ Charge the amount of \_\_\_\_\_ as filing fee.

☐ Credit any overpayment.

☐ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.

☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated: JUNE 28, 1999

  
Signature

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CC:

<b>VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) AND 1.27 (b)) - INDEPENDENT INVENTOR</b>			Docket No. <b>99877</b>
Serial No. <b>N/A</b>	Filing Date <b>CONCURRENTLY</b>	Patent No. <b>N/A</b>	Issue Date <b>N/A</b>
Applicant/ Patentee: <b>DAVID K. FARLEY</b>			
Invention:  <b>FILTERED SHOWERHEAD</b>			
<p>As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled above and described in:</p> <p><input checked="" type="checkbox"/> the specification to be filed herewith.</p> <p><input type="checkbox"/> the application identified above.</p> <p><input type="checkbox"/> the patent identified above.</p> <p>I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).</p> <p>Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:</p> <p><input checked="" type="checkbox"/> No such person, concern or organization exists.</p> <p><input type="checkbox"/> Each such person, concern or organization is listed below.</p> <p><b>*NOTE:</b> Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities (37 CFR 1.27)</p> <div style="margin-top: 10px;"> <p>FULL NAME _____</p> <p>ADDRESS _____</p> <p style="text-align: center;"> <input type="checkbox"/> Individual             <input type="checkbox"/> Small Business Concern             <input type="checkbox"/> Nonprofit Organization         </p> </div> <div style="margin-top: 10px;"> <p>FULL NAME _____</p> <p>ADDRESS _____</p> <p style="text-align: center;"> <input type="checkbox"/> Individual             <input type="checkbox"/> Small Business Concern             <input type="checkbox"/> Nonprofit Organization         </p> </div> <div style="margin-top: 10px;"> <p>FULL NAME _____</p> <p>ADDRESS _____</p> <p style="text-align: center;"> <input type="checkbox"/> Individual             <input type="checkbox"/> Small Business Concern             <input type="checkbox"/> Nonprofit Organization         </p> </div> <div style="margin-top: 10px;"> <p>FULL NAME _____</p> <p>ADDRESS _____</p> <p style="text-align: center;"> <input type="checkbox"/> Individual             <input type="checkbox"/> Small Business Concern             <input type="checkbox"/> Nonprofit Organization         </p> </div>			

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF INVENTOR DAVID K. FARLEY

SIGNATURE OF INVENTOR *David K. Farley*

DATE: 6-23-99

NAME OF INVENTOR \_\_\_\_\_

SIGNATURE OF INVENTOR \_\_\_\_\_

DATE: \_\_\_\_\_

NAME OF INVENTOR \_\_\_\_\_

SIGNATURE OF INVENTOR \_\_\_\_\_

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DATE: \_\_\_\_\_

NAME OF INVENTOR \_\_\_\_\_

SIGNATURE OF INVENTOR \_\_\_\_\_

DATE: \_\_\_\_\_

PATENT APPLICATION  
DOCKET NO. 99877

## **FILTERED SHOWERHEAD**

Inventor: David K. Farley

# FILTERED SHOWERHEAD

## Background of the Invention

### 1. Field of the Invention:

This invention relates generally to showerheads, and, more particularly, to an improved, compact showerhead, having a water filter therein.

### 2. Description of Related Art:

Shower filters for use in conjunction with showerheads are known. These filters may be inserted into a water line, between the showerhead and the shower arm. However, because of the size of the filter and the added showerhead, this moves or offsets the showerhead so that it extends further into a shower area and, in some cases, interfering with a person taking a shower. Because of problems with size and the installation of such known shower filters, as well as the high cost of manufacturing, there exists the need in the art for a less-cumbersome, easy-to-install and move, low-cost combination showerhead and water filter device, that is also compact, and takes up a minimum of space.

Known shower filter assemblies are set forth in U.S. patent No. 5,503,742 to Farley, 5,300,224 to Farley, and 5,152,464 to Farley. While the foregoing prior art devices provide improved filtration of hot water passing through them, they require that a separate showerhead be attached to an outlet of the filters, thereby extending the size of the joined showerhead and shower filter.

## SUMMARY OF THE INVENTION

Accordingly, it is a general object of the present invention to provide an improved shower head assembly. It is a particular object of the present invention to provide a combination shower filter and showerhead. It is a still more particular object of the present invention to provide a compact showerhead and water filter combination that take up a minimum amount of space. It is a further object of the present invention to provide a compact combined showerhead and water filter that

may be easily attached to an existing shower arm, and take up substantially no more space than known showerheads having no filter therein.

The showerhead of the present invention, with its replaceable filter, is compact and may be provided with a message-type spray head, to eliminate the bothersome extension of known shower filters, added before existing showerheads. The showerhead of the present invention provides a more-efficient and economical incorporation of a water filter in a showerhead having a single ergonomically designed body.

In accordance with one aspect of the present invention, there is provided a combination showerhead and water filter assembly having a compact design, which utilizes the internal water filter to direct water entering the showerhead to pass through filter media held in the water filter. In this manner, chlorine and other unwanted materials in the water are filtered out in the showerhead. The combination showerhead and water filter are held in a single body or housing that is made as small as possible, to take up a minimum amount of space. Additionally the single body is easily disassembled to replace or remove the water filter held therein, and provides a compact showerhead and water filter assembly that may be used in substantially any shower, without extending to far into the shower area.

### **BRIEF DESCRIPTION OF THE DRAWINGS**

The objects and features of the present invention, which are believed to be novel, are set forth with particularity in the appended claims. The present invention, both as to its organization and manner of operation, together with further objects and advantages, may best be understood by reference to the following description, taken in connection with the accompanying drawings, wherein like reference numerals are used throughout the several views, and, in which:

FIG. 1 is a perspective view of a preferred embodiment of the combination showerhead and water filter assembly of the present invention;

FIG. 2 is an enlarged cross sectional view taken along line 2-2 of FIG. 1, looking in the direction of the arrows; and



FIG. 3 is a perspective view of the replaceable water filter of the present invention.

### **DESCRIPTION OF THE PREFERRED EMBODIMENTS**

5 The following description is provided to enable any person skilled in the art to make and use the invention and sets forth the best modes contemplated by the inventor of carrying out his invention. Various modifications, however, will remain readily apparent to those skilled in the art, since the generic principles of the present invention have been defined herein specifically to provide for an improved  
10 combination showerhead and water filter assembly, generally indicated by the numeral 10.

Turning now to the drawings, FIGS. 1 and 2, there shown is a preferred embodiment of the compact showerhead and water filter assembly 10 of the present invention. The combined showerhead and water filter is held in a body 20, which may  
5 be fixed to the end of a shower arm or water pipe, not shown, by means of a threaded inlet end 12 having an inlet passage 14. The inlet passage 14 is preferably formed integrally with a rotatable element 16, such as a ball joint or swivel ball that allows the unit 10 to be moved. The ball joint or swivel ball 16 is rotatably held in a recessed opening 18 formed in a top surface of a top or upper half 22 of the body  
20 20. The body 20 includes a mating bottom or lower half 24, which is secured to the top half 24 by internal and external threads 26, 28 formed on mating end portions of the top and bottom halves 22, 24. The ball joint 16 is held in the recessed opening 18 by means of an annular sealing element 30 and a first baffle element 34.

Although the top and bottom halves 22, 24 of body 20 may be formed in any  
25 desired shape, they are preferably hollow and include cylindrical mating portions which are held together, as shown in FIGS. 1 and 2. The recessed opening 18 is formed in an inwardly extending annular housing portion 32 formed in a top surface 43 of the top half 22. The annular sealing element 30 is captured in a lower end of this annular housing portion 32 to prevent leakage past the ball joint 16. Additionally,  
30 the baffle element 34, such as an annular element having at least one opening therein

is held within a lower end of the annular housing 32 and acts to hold the annular sealing element 30 against the ball joint 16. The baffle element 34 cooperates with extending portions of a central dividing member or wall 36 of a filter element 38 captured within an internal chamber formed between the two halves 22, 24 to form a first baffle means to deflect the water entering from inlet passage 14. The filter element 38 included an annular body portion that cooperates with the baffle means to direct the flow of water entering inlet 14 in the direction of arrows 40. After entering inlet 14, water is deflected off the baffle means including the element 34 and a top surface of central dividing member or wall 36. The water then flows into an annular passage 39 formed between an inner surface or wall of annular housing 32 and an upper inner wall 42 formed on the top portion of the annular body of filter element 38, above the dividing member 14. The water is then deflected by curved inner walls 41 of the top surface 43 into a plurality of inlet openings 44 formed in the top of the annular housing of filter 38. The openings 44 include a screen or wire mesh therein to hold a filter media 46 in the annular housing. This filter media is preferably a chlorine removing media, such as Chlorgon™, manufactured by Sprite Industries of Corona California and is described in U.S. patent No. 5,914,043, issued June 22, 1999. Water passes through the filter media 46 and out a plurality of exit openings 48 formed in a lower part of the annular housing of filter element 38. Exit openings 48 also having a wire mesh or screen held therein to keep the filter media 46 within the annular housing.

The filter element 38 is securely held in the internal chamber formed by the mating halves 22, 24, when they are screwed together by the internal and external threads 26, 28 on the outer ends of each of the halves. Sealing elements 54, such as O-ring seals, are held in annular grooves formed in annular supporting portions or walls formed within each of the top and bottom halves, and cooperate with flat ends of the annular housing to seal the filter element 38 within the internal chamber of housing 20.

The lower half 24 of body 20 includes a bottom or lower wall 49 having a central opening 51 formed therein. A valve end of the showerhead 10 preferably

includes an adjustable means 56, commonly referred to as a "massage head" at a lower or outer end of the bottom or lower half 24, below the wall 49. This massage head is movable to provide various spray patterns, varying between a fine spray and a massaging or pulsating spray from a plurality of openings, not shown, in an outer end 59 of an internal portion 58, in a manner well known to those skilled in the art. The internal portion 58 is included in massage head 56, and includes a cylindrical upper portion 60, which is sealed in the opening 51 by a sealing element 62, such as an O-ring. A further sealing ring 64 is held by a further or second baffle element 63 against an inner end of the upper cylindrical portion 60. The second baffle element 63 cooperates with extending portions of a bottom surface of the central dividing member or wall 36 to provide a baffle means, which directs the water flow back to the centerline of the showerhead, before exiting through outer end 59.

The lower wall 49 includes an annular groove 61 formed therein, and water exiting openings 48 will be deflected by this annular groove 61 into an annular passage 50 formed between a lower internal wall 52 of the annular housing of the filter element 38, below the central dividing plate or wall 36, and an outer surface or wall of the cylindrical element 60. After flowing through the annular passage 50, the water is then turned back to the centerline of the showerhead by the baffle means 36, 63. The water then flows through the annular sealing element 64, and out through an internal passage formed through upper cylindrical portion 60 and the internal portion 58 of massage head 56.

When the top and bottom halves 22, 24 are assembled, as by being screwed together, the filter element 38 is held within the internal chamber formed therein and cooperates with the internal chamber to direct water flow through filter media held therein. The filter element 38 may be easily changed by unscrewing the top and bottom halves, removing the filter, and refilling the filter with new filter media, or replacing the entire filter. The filter media held within the filter 38 may be any desired filter media, but is preferably Chlorgon™, as described above, which removes chlorine and other unwanted materials from hot shower water.

All of the elements of showerhead filter assembly of the present invention may be fabricated in any desired manner, using any acceptable material, such as by molding plastic materials to form the various elements. Each of the elements is sized and dimensioned so that it is of minimum size, but is still capable of being secured to other elements and to a shower arm, as by means of the threaded end 12, so as to accommodate a water filter of sufficient size to filter out unwanted contaminants from hot shower water, without taking up more space than available showerheads having no filters therein.

Accordingly, as will be apparent to those skilled in the art, the assembly of the present invention provides considerable advantages in ease and flexibility of manufacture of showerheads and water filters. Additionally, the showerhead and water filter combination of the present invention is easy to use and install, and takes up substantially less space than known showerheads and separately attached shower filters. The top and bottom halves of the showerhead assembly are easily taken apart, for installation and removal of the filter element contained therein.

Those skilled in the art will appreciate that various adaptations and modifications of the just-described preferred embodiments can be configured without departing from the scope and spirit of the invention. Therefore, it is to be understood that, within the scope of the appended claims, the invention may be practiced other than as specifically described herein.

## CLAIMS

### What Is Claimed Is:

1. A showerhead comprising, in combination:  
a body comprised of a top hollow mating half having a pivotable inlet and a bottom hollow mating half having a spray outlet;  
the top hollow mating half and the bottom hollow mating half being held together by matching threads formed at mating ends thereof;  
a water filter assembly having an annular chamber with a plurality of inlet openings and a plurality of exit openings and a filter media held therein; the water filter assembly being secured in an internal chamber formed by the top hollow mating half and the bottom hollow mating half; and  
means in the internal chamber for directing flow of water from the pivotable inlet through the water filter and out of the spray outlet.
2. The showerhead of claim 1 wherein the pivotable inlet is held in an annular housing portion recessed into a top portion of the top hollow mating half, and is sealing captured in an annular sealing member by a baffle element held between a central dividing wall formed in the water filter.
3. The showerhead of claim 2 wherein the spray outlet is a massage head movable between different spray positions.
4. The showerhead of claim 2 wherein the means in the internal chamber for directing flow of water includes a first baffle means, an annular passage, and curved inner walls at an upper end of the top hollow mating half, to direct the flow of water into the plurality of inlet openings in the annular chamber.
5. The showerhead of claim 4 wherein the annular passage is formed between an inner wall of the annular chamber and an inner surface of the annular housing portion.

6. The showerhead of claim 5 wherein the means for directing flow of water also includes the plurality of exit openings, an annular groove formed in a bottom wall of the bottom hollow half, a second annular passage formed by inner walls of the annular chamber below the central dividing wall formed in the water filter and inner walls of a central cylindrical portion, and a second baffle means.

7. The showerhead of claim 1 wherein the top hollow mating half has curved inner walls at an upper portion thereof, and the bottom hollow mating half has a massage head at a lower end thereof; the message head being movable between a fine spray pattern and a pulsating spray pattern; and the pivotable inlet is held in an annular housing portion recessed into the upper portion of the top hollow mating half, the pivotable inlet being sealing captured in an annular sealing member by a first baffle element held between a central dividing wall formed in the water filter and the annular sealing element.

8. The showerhead of claim 7 wherein the means in the internal chamber for directing flow of water includes the first baffle element, a first annular passage, and the curved inner walls to direct the flow of water into the plurality of inlet openings in the annular chamber.

9. The showerhead of claims 8 wherein the first annular passage is formed between an upper inner wall portion of the annular chamber and an inner surface of the annular housing portion.

10. The showerhead of claim 9 wherein the means for directing flow of water also includes the plurality of exit openings, an annular groove formed in a bottom wall of the bottom hollow half, a second annular passage formed by lower inner walls of the annular chamber, below the central dividing wall, and an outer surface of a central cylindrical portion, and a second baffle element.

11. A showerhead comprising, in combination:

a body comprised of a top hollow mating half having a recessed annular housing portion having a pivotable inlet held therein, and a bottom hollow mating half having a shower spray outlet;

the top hollow mating half and the bottom hollow mating half being held together by matching threads formed at mating ends thereof and forming an internal chamber;

a water filter assembly having an annular chamber with a plurality of inlet openings and a plurality of exit openings and a filter media held therein; the water filter assembly being secured in the internal chamber between annular wall portions formed in the internal chamber; and

baffle elements held in the internal chamber, on opposite sides of a dividing wall formed in the water filter assembly, for directing flow of water from the pivotable inlet through the plurality of inlet openings, out the plurality of exit openings, and through the shower spray outlet.

12. The showerhead of claim 11 wherein the dividing wall is formed in a central open portion of the annular chamber of the water filter and the shower spray outlet is a massage head movable between different spray positions.

13. The showerhead of claim 12 wherein a first of the baffle elements is held in the internal chamber before a first annular passage, and the internal chamber includes curved inner walls at an upper end of the top hollow mating half to direct the flow of water into the plurality of inlet openings in the annular chamber.

14. The showerhead of claims 13 wherein the first annular passage is formed between an upper inner wall of the annular chamber, above the dividing wall, and an inner surface of the recessed annular housing portion.

15. The showerhead of claim 14 wherein the means for directing flow of water also includes the plurality of exit openings, an annular groove formed in a bottom wall of the bottom hollow half, a second annular passage formed by lower inner walls of the annular chamber, below the central dividing wall, and inner walls of a central cylindrical portion, and a second baffle element.

16. A showerhead comprising, in combination:

a substantially cylindrical body having a top hollow mating half with a recessed annular housing portion having a pivotable inlet held therein, and a bottom hollow mating half having a massage head;

the top hollow mating half and the bottom hollow mating half having end portions formed thereon, which end portions are screwed together so as to form an internal chamber;

A water filter assembly held in the internal chamber, between annular wall portions;

the water filter assembly having an annular chamber with filter media held therein and a central open area bounded by inner walls; a dividing wall held in the central open area to separate the inner walls into upper and lower portions; a plurality of inlet openings and a plurality of exit openings in the annular chamber;

a first baffle element held in the internal chamber, on an upstream side of the dividing wall;

a second baffle element held in the internal chamber on a downstream side of the dividing wall; and

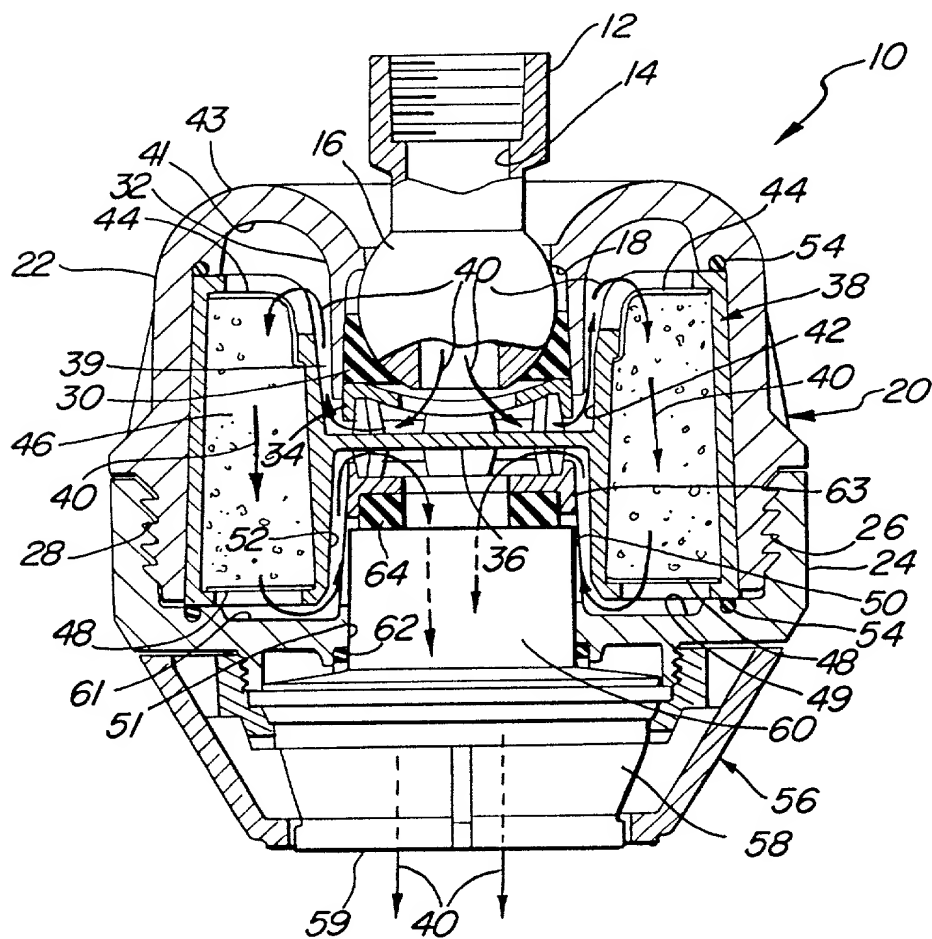
the first baffle element and the second baffle element cooperating with upper and lower surfaces of the dividing wall to direct flow of water from the pivotable inlet, around upper portions of the inner walls into the plurality of inlet openings, through the filter media, out the plurality of exit openings, around the lower portions of the inner walls and through the massage head.



17. The showerhead of claim 16 wherein the flow of water is also directed by an annular groove formed in a bottom wall of the bottom hollow half and the inner surface of a central cylindrical portion.

### **ABSTRACT**

A showerhead having a water filter element held therein. The water filter element is easily changeable by unscrewing two halves of a body forming the showerhead. The body halves are easily gripped and turned, so as to be opened or closed, and the showerhead preferably includes a massage-type head at the lower end thereof, which may be rotated to vary the streams of water exiting the showerhead. The water filter element cooperates with internal components of the halves of the body to direct the flow of water through the filter element, and then out of the massage head. The showerhead may be easily and quickly adapted to be held on any shower arm, and to replace any existing showerhead without taking up as much room as currently existing filter elements used with available showerheads.



Docket No.

99877

# Declaration and Power of Attorney For Patent Application

## English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

### **FILTERED SHOWERHEAD**

the specification of which

(check one)

☒ is attached hereto.

☐ was filed on \_\_\_\_\_ as United States Application No. or PCT International Application Number \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	<input type="checkbox"/>
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	<input type="checkbox"/>
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	<input type="checkbox"/>

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status)  
(patented, pending, abandoned)

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status)  
(patented, pending, abandoned)

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status)  
(patented, pending, abandoned)

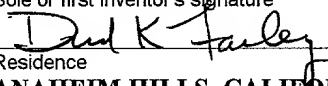
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*

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Second inventor's signature	Date
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Citizenship	
Post Office Address	

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TRANSMITTAL OF FORMAL DRAWINGS

Docket No.  
99877

In Re Application Of: **DAVID K. FARLEY**

Serial No.

N/A

Filing Date

CONCURRENTLY

Batch No.

N/A

Examiner

N/A

Art Unit

N/A

Invention: **FILTERED SHOWERHEAD**

Address to:  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Transmitted herewith are:

**ONE (1)** sheets of formal drawing(s) for this application.

Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawing.

Dated: **JUNE 28, 1999**

*Signature*

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I certify that this document and attached formal drawings are being deposited on **June 28 1999** with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

*Signature of Person Mailing Correspondence*

**KAREN WORTH**

*Typed or Printed Name of Person Mailing Correspondence*